

2019 2nd International Conference on Power Energy, Environment and Intelligent Control (PEEIC 2019)

**Greater Noida, India
18 – 19 October 2019**



**IEEE Catalog Number: CFP19N33-POD
ISBN: 978-1-7281-1794-2**

**Copyright © 2019 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP19N33-POD
ISBN (Print-On-Demand):	978-1-7281-1794-2
ISBN (Online):	978-1-7281-1793-5

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Table of Content

Sr. No.	Content	Page No.
1	Improved Design of Automatic Car Battery Charging System Shubhangi Singh, Pragati Rathore, Vijay Kumar Tayal, S.K.Sinha	1-5
2	A systematic review on the methods of short term load forecasting Dhruv Upadhaya, Ritula Thakur	6-11
3	Wireless Notice Board Using GSM Vasu Sharma, Sparsh Bansal, Neelam Verma, Anjali Jain, Lalit Jain, Tanya Jain	12-17
4	Machine Learning Computation on Multiple GPU's using CUDA and Message Passing Interface Bhagirath, Neetu Mittal, Sushil Kumar	18-22
5	Component Based Life Cycle Models Comparative Survey Kajal Garg, Shambhu Kumar Jha	23-26
6	Energy Efficient Building Automation System Neelam Verma, Anjali Jain	27-32
7	Autonomous Traffic Management using Big Data in a Network of IoT Enabled Devices Robin Singh, Sonia Saini, Ruchika Bathla	33-37
8	Password Guessing Using Deep Learning Vernit Garg, Laxmi Ahuja	38-40
9	Less Energy Consumption Framework for Fog Computing With IoT Prateek Rana, Monika Sharma	41-46
10	Detection of Cyber Crime on Social Media using Random Forest Algorithm Twinkle Arora, Monika Sharma, Sunil Kumar Khatri	47-51
11	Prevention of Agricultural Commodities using Artificial Intelligence Aman Vohra, Nitin Pandey, Sunil Kumar Khatri	52-54
12	Polyfunctional Application of Substratum unified Waveguide Cavity in Dielectric Resonating chamber Antenna and Recompose Circuit Ram Krishna, Shiva Sharma	55-59
13	A review paper on cryptocurrency & portfolio management Varun Chauhan, Ginni Arora	60-62
14	Integration of Virtual Reality and Augmented Reality for Immersive Gaming and Learning Shreyes Tripathi	63-66
15	Importance of using Wimax in Tourism Industry: A Review Nusan Dubey, Ginni Arora	67-69
16	A Framework to Identify and secure the Issues of Fake News and Rumours in Social Networking Anav Bedi, Nitin Pandey, Sunil Kumar Khatri	70-73
17	Performance Analysis of Three-Phase PWM Rectifier for Controlling Line Current using Current Control Loop Ankur Kumar, Vijay Shankar, A.N.Tiwari	74-77

18	Robotics in HealthCare Suman Kar	78-83
19	Unconventional Content Strategy and Hierarchical Taxonomy for Modern Web and Mobile App Design Punit Chawla, Ruchika Bathla	84-87
20	Performance Analysis of Single MPPT Technique using RBFN for PV and Wind Hybrid System Divyanshi Srivastava, S.K.Srivastava	88-93
21	Nature Inspired Load Balancing Algorithms- A Review Shaheen Khanam, Muzammil Hasan	94-99
22	Assessment of grid connected PMSG based WECS Raj Kamal Tiwari, Rahul Kumar Rai, A. K. Pandey	100-105
23	Implementation of ANFIS control scheme for D-STATCOM Anuj Varshney, Prof. Rachana Garg, Nagendra Kumar	106-110
24	Impact of Various Factors on the Performance of Solar Panel Apoorvi, M. A. Ansari, Krishan Kumar	111-115
25	Uninterrupted Power Supply through Hybrid Power Generation Using smart grid technology Prakhar Kumar Singh, M.A.Ansari, Krishan Kumar, Vinaya Rana	116-121
26	Performance and Analysis of PV System With MPPT Application By using SPWM and SVPWM technique Abhinav Kumar Pandey, Ashok Kumar Pandey	122-127
27	Production of Bio-Gas and Organic Fertilizer Using Canteen and Kitchen Waste Jay Singh, Shiva Pujan Jaiswal, Vikas Singh Bhadoria, Niharika Varshney, Monika Jain	128-131
28	Performance Analysis of Grid Connected Hybrid PV-Wind System Paras Sharma, Dr. M.A. Ansari, Dr. Nidhi Singh Pal	132-137
29	Speed Control of DC Motor Using Adaptive Neuro Fuzzy Inference System Based PID Controller Md. Asif Hasan, Raj Kumar Mishra, Srishti Singh	138-143
30	Smart Home Automation System Using Internet of Things Urvi Singh, M. A. Ansari	144-149
31	Firefly Algorithm for Frequency Controller of Autonomous Hy-brid Energy System Vikas Singh Bhadoria, Shiva Pujan Jaiswal, Ankit Tayal, Jay Singh	150-155
32	Performance Analysis of Solar Energy Harnessing System Using Homer Energy Software and PV Syst Software Sanjay Kumar, Prashant Upadhyaya, Awadesh Kumar	156-159
33	Parametric Analysis of Adaptive Whale Optimization Technique for Power Quality Enhancement in Restructured Electricity Market Niharika Thakur, Y K Awasthi, Manisha Hooda, A S Siddiqui	160-166
34	Algorithmic Analysis on Hybrid-Intelligent Deregulated Electricity Market Manisha Hooda, Y K Awasthi, Niharika Thakur, A S Siddiqui	167-173
35	Optimization of Solar Energy Using ANN Techniques Kulsoom Fatima, Mohammad Aslam Alam, Ahmad Faiz Minai	174-179
36	Reduced Switch Count 36 level Inverter for Open End Winding Induction Motor Drive Rajat Sachan, Neelesh Kumar, Aditya Arvind, Ajay Kumar Arya, Sanjiv Kumar	180-185

37	Virtual Flux and Frequency Meter Shiva Pujan Jaiswal, Vikas Singh Bhadoria, Amit Agrawal, Jay Singh	186-189
38	A 3-level Inverter based Induction Motor Drive for Cane Preparation in Sugar Industry Vinay Kumar, Sanjiv Kumar	190-195
39	Formulation of Efficiency of Inverters for Solar Photovoltaic Power Plants – Indian Case Study Akshaya Harish, Aravindakshan Ramanan, Prasun Kumar Das, Dr.G.Giridhar, Dr.K.Balaraman, Prabu T	196-201
40	DHP based controller design for interconnected AGC scheme Nagendra Kumar, Anuj Varshney, Kailash Shrama, Brijesh Prasad	202-206
41	Dual Heuristic programming based controller for deregulated AGC scheme Nagendra Kumar, Anuj Varshney, Kailash Shrama, Brijesh Prasad	207-212
42	Avoiding Power Clipping Losses by Inverter having High DC-to-AC Loading Ratio in Grid Connected Solar PV Plant Using Battery Energy Storage System Shashi Shekhar Giri, Aziz Ahmad, Vimal Katiyar	213-219
43	A low cost simple solution for reducing starting transient currents in low power dc motors Arnav Malhotra	220-223
44	A Cumulative Study of Different Power Output and Carbon Credit Earned in Roof Integrated Photovoltaic Amit Kumar Dash, Sanjay Agarwal, Sanjay Gairol, Anuj Bانشwar	224-228
45	Application of Artificial Neural Network in Cryptography Bhavya Arora, Srishti K, Nikita Khatri, Vandana Niranjana	229-232
46	Grey Wolf Optimization Algorithm based PID controller design for AVR Power system Rvindra kumar Kuri, Deepak Paliwal, D. K. Sambariya	233-237
47	Smart Streetlight with Power Vending Scheme Pooja Rani Borah, Dibyajyoti Chatterjee, Anshuman Baruah	238-242
48	MPPT BASED HYBRID ENERGY STORAGE SYSTEM Rajarshi Saha, Jayati Dey	243-248
49	Three-Phase Space Vector Modulated Improved Z-Source Inverter Sweta Kumari, Dr. Rajib Kumar Mandal, Diwakar Verma	249-253
50	WOA Based LFC of Interconnected Power System Incorporating UPFC Utkarsh Raj, Ravi Shankar	254-258
51	Development of a Peer to peer electricity exchange model in micro grids for rural electrification V S K V Harish, Naqui Anwer, Amit Kumar	259-263
52	Neural Network and Wavelet-Based Study on Classification and Analysis of Brain Tumor using MR Images Rajat Mehrotra, M.A. Ansari, Rajeev Agrawal	264-269
53	Fault compensation of DFIG based integrated power system using UPFC Priyanka Suthar, Utkarsh gupta, D. K. Yadav	270-274
54	A Review : Multilevel Hybrid Ultra-Boost Converter Topologies for PV Solar Applications Mona Chorishiya, D K Palwalia	275-280
55	Analysis and Control of AC and Hybrid AC-DC Microgrid: A Review Pratiksha Gupta, M.A. Ansari	281-286

56	Modeling of Automation System Development using Methodological Approach: A Review Yahya Alward, M.A.Ansari	287-292
57	An Introduction to Deep Learning Techniques in Ultrasound Image Modality Mayank Rai, Priyanka Datta, Reda Ansari	293-298
58	Technical and Financial Assessment of a Grid Connected Solar PV Net Metering System for Residential Community Ravindra Kumar Yadav, Vikas Singh Bhadoria, P.N. Hrisheeksha	299-303
59	Simulation Studies for Hybrid Power Flow Controller based Controller for SMIB System Swati Bhasin, Dr. Annapurna Bhargava, Vandana Chaudhary, Sandeep Verma	304-306
60	An Enhancement in Energy Efficient Hybrid Routing Protocol Using WSN with Clustering Implementation Ram Bhushan Agnihotri, Nitin Pandey, Shekhar Verma	307-311
61	Optimization and Performance matrices in 5G Networks Priyanka Datta, Rajesh Rohilla	312-317
62	Low-Cost Power Monitoring System Anshuman Baruah, Pooja Rani Borah, Dibyajyoti Chatterjee	318-321
63	Handwritten Digit Recognition Using Machine Learning : A Review Anchit Shrivastava, Isha Jaggi, Sheifali Gupta, Deepali Gupta	322-326
64	Stability analysis of reduced order building energy models for optimal energy control V S K V Harish, Arun Kumar	327-331
65	Simulation Study of an Isolated Microgrid Consisting Electric Vehicle Charging Station with Penetration of Multiple RESs Sandeep Verma, Dr. Annapurna Bhargava, Vandana Chaudhary, Swati Bhasin	332-337
66	Comparative Simulation Studies for Hybrid Power Flow Controller and UPFC based Controller for SMIB System Swati Bhasin, Dr. Annapurna Bhargava, Sandeep Verma, Vandana Chaudhary	338-341
67	Performance Analysis of Symmetric Transformerless Buck Boost AC-AC Converter Kajal Kumari, Ashok Kumar Sharma	342-346
68	Methodologies for the Selection of Weighting Function Dakshita Pathak, D.K.Sambariya	347-350
69	Analysis of Interleaved Coupled Inductor Ultra-Boost Converter for Solar PV Applications Mona Chorishiya, D K Palwalia	351-355
70	Nanostructure Materials An Overview of its Properties and Applications Amol Purohit, Ranjana Trivedi, Shilpa Choudhary	356-359
71	Conditional Contrast High Itemset Mining for Two Dataset in Two Time Slot Punam Prabha, Anindita Mazumdar	360-365
72	Self Control & Monitoring Traffic Management System Sachin Priyadarshi, Rajat Mehrotra, Shivam Shekhar	366-370
73	Integration of automated Demand Response and Energy Efficiency to enable a smart grid infrastructure Sweta Malik, V.S.K.V.Harish	371-377
74	Design and Economic analysis of Wireless Electric Vehicles Suraj Srivastav, Ramesh Kumar, Jay Singh, Ajay Kumar Pandey	378-382

75	Review on Artificial Intelligence with Internet of Things - Problems, Challenges and Opportunities Arun Kumar Rana, Ram krishna, Sachin Dhwan, Dr. Sharad Sharma, Dr. Rashmi Gupta	383-387
76	Electronic Control System for Energy Saving in Elevator Sheifali Gupta, Deepali Gupta, Rupesh Gupta, Sarang Sharma, Gaurav Kumar	388-390
77	Performance Analysis of Buck Boost DC/AC Converter With Switched Inductor Network Kajal Kumari, Ashok Kumar Sharma	391-395
78	An Isolated Hybrid WT/PV/MH Power Generation System assisted with an Energy Storage System in conjunction with a Power Management Scheme Ankit Gupta, Nidhi Singh Pal, Yogesh Kumar Chauhan	396-401
79	Whale Optimization Algorithm (WOA) Based Control Of Nonlinear Systems Vishal Srivastava, Smriti Srivastava	402-406
80	Solar based electric vehicle charging station Md Sohail Tanveer, Sunil Gupta, Rahul Rai, Neeraj Kumar Jha, Dr. Mohit Bansal	407-410
81	A performance evaluation of fuzzy logic controllers for load frequency control in a single area network Anshu Prakash Murdan, S Z Sayed Hassen, Iqbal Jahmeerbacus	411-417
82	Performance Evaluation of a 4 kW Isolated Solar Powered Lab with IoT Energy Management System Aditya Kumar Singh, Kirti Pal, Neeraj Kumar Gupta	418-423
83	Waveform Driven Event Mitigation of PV System using Active Filtering for Controlled Converter Load Seema Agrawal, Tanu Shree Samaria, R.K.Somani	424-428
84	Power Quality Enhancement of Soft Computing FLC MPPT Based Standalone Photovoltaic System SeemaAgrawal, Sunil Kumar Vaishnav, D. K Yadav, R.K.Somani	429-434
85	Secret Data Hiding in Image Using AMBTC Technique Neeraj Kumar, Dinesh Kumar Singh, Shayendra Sharma	435-440
86	Design and Analysis of a RES based Autonomous Hybrid Model for Rural Electrification Arshad Husain Quadri, Mohammad Rizwan, Narendra Kumar	441-447
87	Sensors for e-Healthcare and Environmental Applications: Towards systems of the future Mahesh Swami, Divya Verma	448-453
88	Prewett Edge Detector Method for Content Extraction in Moving Pictures or Images Amit Sehgal, Awanish Kumar Kaushik, Shilpa Choudhary, Satish Saini	454-457
89	An Introduction to Deep Learning Applications In MRI Images Priyanka Datta, Rajesh Rohilla	458-465
90	Heart disease-Sinus arrhythmia prediction system by neural network using ECG analysis Shivendra Kaura, Assem Chandel, Nitin Kumar Pal	466-471
91	FANETs: Current Trends and Challenges Sandeep Raj, Dr. V.K Panchal, Dr. Prem Chand Vashist, Dr. Rajiv Chopra	472-475
92	Examine robustness of efficiency scores on account of data variation in Data Envelopment Analysis (DEA) Ranjana Yadav, Anuradha Mishra, Shubham Gupta	476-480
93	Revolution of Green Accounting: A Conceptual Review Shalini Singh, Anjana Singh, Shubh Arora, Shivi Mittal	481-485
94	Paperless Technology – A Solution to Global Warming Nikita Nayyar, Shubh Arora	486-488

95	Anatomization on Range-free Localization Algorithms in Wireless Sensor Networks Jigyasa Chadha, Dr. Aarti Jain	489-492
96	Traffic Resolution Algorithms, Machine Learning and Sensors Mridul Sokhi, Ginni Arora	493-495
97	Analysis of Wireless Multimedia Sensor Network Virender Yadav, Ginni arora	496-498
98	Analysis of International and National Case Studies of Restructuring Issues in Electric Power Market Ankit Kumar Pandey, Prof. S.K. Srivastava, Vivek Kumar Singh	499-503
99	Solar assisted Switched reluctance motor drive using Asymmetrical bridge converter ShubhamGautam, Pradeep Meena, Sunita Chahar	504-507
100	Model Order Reduction using Grey Wolf Optimization and Factor Division Method Pranay Bhadauria, Nidhi Singh Pal	508-512
101	Estimating the impact of a residential microgrid on distribution transformer Nayeem Chowdhury, Michael Mann	513-517
102	Compact Circularly Polarized Printed Antenna with Defected Ground Plane for Multiband Applications Chandan Kumar, Rakesh N. Tiwari, Prabhakar Singh, Dinesh Kumar	518-521
103	Realization of an asymmetric Switched-Capacitor Multilevel Inverter using Nearest Level Control Anzar Ahmad, MUAnas, Adil Sarwer, Mohammad Zaid, Afroz Alam, Zeeshan Sarwer	522-527
104	Performance Evolution of Conventional and Swarm based Routing Methods in Mobile Ad-Hoc Networks Swapnil Mishra, Purneshwari Varshney, Shilpa Choudhary, Rajendra Purohit	528-531
105	Order Reduction of Dynamic Systems by Using Renovated Pole Clustering Technique Abha Kumari, C. B. Vishwakarma	532-537
106	Comparative Study of Buck-Boost, Cuk and Zeta Converter for Maximum output Power Using P&O technique with solar Surbhi Shringi, Santosh Kr Sharma, Kuldeep Singh Rathode	538-542
107	Solar PV based grid interfaced system with power quality improvement Pradeep Meena, Shubham Gautam, Sunita Chahar	543-546
108	Future of transportation Abhishek gupta, Khushal Verma, Savita Chauhan, Pawan Kumar gupta, Mohit Bansal	547-551
109	Electronic waste in India Abhishek Gupta, Priyanka Datta, Mohit Bansal, Jay Singh	552-555
110	Design of Micro-grid Using Hybrid Energy Source for Remote Location Application Bhavana Saini, M. A. Ansari, Vinaya Rana	556-560
111	Copy-Move Forgery Detection using Residuals and Convolutional Neural Network Framework: A Novel Approach Rahul Thakur, Rajesh Rohilla	561-564
112	A Maximum Power Point Tracking Method Using a Hybrid PSO and Grey Wolf Optimization Algorithm Imran Pervez, Ifham H. Malick, Mohd Tariq, Adil Sarwar, Mohd Zaid	565-569
113	Home Computerization for the Elderly And Disabled with Internet of Things Sakshi Dhiman, Shivang Gupta, Anshul Chopra, Prem Chand Vashist	570-573
114	PSO based Fractional Order PID Controller for Speed Control of Induction Motor Arunesh Kumar Singh, D.K.Chaturvedi, Nitin Kumar Pal	574-575
115	Simulation of Boost Converter using ePWM feature of DSP TMS320F28335 Akshaya Mhatre, Harsh Vardhan Gaur, Rohan Kulkarni	576-579